

High-Efficiency 13 SEER



**CENTRAL AIR CONDITIONING
AND HEAT PUMP SYSTEMS**
13 SEER
1.5 - 5 TON



PERFORMANCE

Engineered to consume less energy and save money
High-efficiency compressors and coils
Copper condenser coils with aluminum fins for maximum heat transfer

QUALITY

Heavy-gauge, corrosion-resistant steel cabinet
Factory tested to ensure leak-free construction and proper operation
Standard high and low refrigerant pressure safety switches prevent compressor damage
Brass liquid lines and service valves
Liquid line filter drier protects the unit

QUIET

Top discharge
Totally enclosed, permanently lubricated direct drive fan motor

DURABLE

Superior paint finish and corrosion protection
Compressor damage protection
Elevated base pan with drain holes reduce rust and corrosion
Full metal jacket protects coils from damage
5-year limited warranty on all parts and compressor

SERVICE-FRIENDLY

Removable access panels for service and cleaning
Top cover is easily removed



*Keeping families cool
for more than 60 years.*

C13 CONDENSER

Model Specifications

MODEL NUMBER			C13181VAR	C13241VAR	C13301VAR	C13361VAR	C13421VAR	C13481VAR	C13601VAR	
Rated cooling capacity		(BTU/h)	18,000	24,000	28,000	35,000	40,000	47,000	56,000	
Power supply		V/Ph/Hz	208~230/1/60	208~230/1/60	208~230/1/60	208~230/1/60	208~230/1/60	208~230/1/60	208~230/1/60	
Voltage range		V	197-253	197-253	197-253	197-253	197-253	197-253	197-253	
Operating current amps.		A	7.5	9.7	11.1	13.8	15.0	19.6	21.6	
Min. wire ampacity		A	8.6	11.6	12.4	15.9	17.7	21.8	33.7	
Max. amps. of fuse or HACR type circuit breaker		A	15	20	20	25	30	35	55	
Compressor	Type		Reciprocating	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Scroll	
	Rated load amps.		A	6.2	8.6	9.2	11.7	13.0	15.8	25.0
	Locked running amps.		A	41.0	60.0	60.0	73.0	85.0	90.0	150.0
Fan motor	Type		psc	psc	psc	psc	psc	psc	psc	
	Rated load amps.		A	0.86	1.10	1.10	1.30	1.43	2.00	2.50
	Rated HP			1/8	1/6	1/6	1/4	1/3	1/3	1/2
	Nominal RPM			1000	840	840	850	1070	960	1000
Fan blades	# blades-dia.		3-18"	3-23"	3-23"	3-24"	3-23"	3-24"	3-24"	
	Nominal CFM		1350	1800	2100	2700	3200	3600	4000	
Outdoor coil	Type		Enhanced aluminum fins and grooved copper tubes							
	Area		Sq. ft.	10.80	16.00	18.40	18.40	20.85	18.40	23.30
	ROWS-FPI			1--21	1--21	1--21	1--21	1--21	2--16	2--21
	Tube diameter		Inch	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Refrigerant line sizes	Liquid		Inch	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Vapour		Inch	3/4	3/4	3/4	7/8	7/8	7/8	7/8
Refrigerant charge R22		Oz.	86.57	102.47	121.91	134.28	148.41	178.45	259.72	

Due to continuous product improvement, product specifications are subject to change without notice.

Cooling

Outdoor	Indoor	Indoor fan speed	ARI data of indoor			Cooling capacity with different outdoor temperatures							
			Capacity	SEER	CFM	80	85	90	95	100	105	110	115
C13181VAR	AB132400V1M	M	18000	13	670	20340	19746	19080	18000	17730	17460	17190	16920
C13241VAR	AB132400V1M	H	24000	13	900	27120	26328	25440	24000	23640	23280	22920	22560
C13301VAR	AB133600V1M	L	28000	13	1125	31640	30716	29680	28000	27580	27160	26740	26320
C13361VAR	AB133600V1M	H	35000	13	1240	39550	38395	37100	35000	34475	33950	33425	32900
C13421VAR	AB134800V1M	L	40000	13	1480	45200	43880	42400	40000	39400	38800	38200	37600
C13481VAR	AB134800V1M	H	47000	13	1650	53110	51559	49820	47000	46295	45590	44885	44180
C13601VAR	AB136000V1M	H	56000	13	1800	63280	61432	59360	56000	55160	54320	53480	52640

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When the unit is installed on a cement pad, a gap must be left between the pad and the foundation wall.

Vibration isolation pads must be installed when the unit is mounted on wall brackets.

H13 HEAT PUMP

Model Specifications

MODEL NUMBER			H13181VAR	H13241VAR	H13301VAR	H13361VAR	H13421VAR	H13481VAR	H13601VAR
Rated cooling capacity		(BTU/h)	17,500	24,000	28,000	35,000	42,000	46,000	55,000
Rated heating capacity		(BTU/h)	16,500	22,500	25,500	32,000	41,000	44,000	55,000
Power supply		V/Ph/Hz	208~230/1/60	208~230/1/60	208~230/1/60	208~230/1/60	208~230/1/60	208~230/1/60	208~230/1/60
Voltage range		V	197-253	197-253	197-253	197-253	197-253	197-253	197-253
Operating current amps.		A	7.5	9.8	11.2	13.6	17.0	19.2	21.6
Min. wire ampacity		A	8.6	11.6	12.8	16.1	20.6	21.7	33.7
Max. amps. of fuse or HACR type circuit breaker		A	15	20	20	25	35	35	55
Compressor	Type		Reciprocating	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Scroll
	Rated load amps.	A	6.2	8.6	9.2	11.7	14.9	15.8	25.0
	Locked running amps.	A	41	60	60	73	90	90	150
Fan motor	Type		psc	psc	psc	psc	psc	psc	psc
	Rated load amps.	A	0.86	1.10	1.30	1.43	2.00	2.00	2.50
	Rated HP		1/6	1/6	1/4	1/3	1/3	1/3	1/2
	Nominal RPM		840	840	850	1070	960	880	1000
Fan blades	# blades-dia.		3-23"	3-23"	3-24"	3-23"	3-24"	3-24"	3-24"
	Nominal CFM		1800	1800	2700	3200	3600	4000	4300
Outdoor coil	Type		Enhanced aluminum fins and grooved copper tubes						
	Area	Sq.ft.	16.00	16.00	18.40	18.40	18.40	20.85	25.75
	ROWS-FPI		1--21	1--21	1--21	1--21	2--17	2--17	2--17
	Tube diameter	Inch	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Refrigerant line sizes	Liquid	Inch	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Vapour	Inch	3/4	3/4	3/4	7/8	7/8	7/8	7/8
Refrigerant charge R22		Oz.	125.44	116.61	136.04	130.74	185.51	196.11	314.49

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Cooling

Outdoor	Indoor	Indoor fan speed	ARI data of indoor			Cooling capacity with different outdoor temperatures							
			Capacity	SEER	CFM	80	85	90	95	100	105	110	115
H13181VAR	AB132400V1M	M	17500	13	670	19775	19197	18550	17500	17237	16975	16712	16450
H13241VAR	AB132400V1M	H	24000	13	900	27120	26328	25440	24000	23640	23280	22920	22560
H13301VAR	AB133600V1M	L	28000	13	1125	31640	30716	29680	28000	27580	27160	26740	26320
H13361VAR	AB133600V1M	H	35000	13	1240	39550	38395	37100	35000	34475	33950	33425	32900
H13421VAR	AB134800V1M	L	42000	13	1480	47460	46074	44520	42000	41370	40740	40110	39480
H13481VAR	AB134800V1M	H	46000	13	1650	51980	50462	48760	46000	45310	44620	43930	43240
H13601VAR	AB136000V1M	H	55000	13	1850	62150	60335	58300	55000	54175	53350	52525	51700

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Heating

Outdoor	Indoor	Indoor fan speed	ARI data of indoor			Heating capacity with different outdoor temperatures							
			Capacity	HSPF	CFM	-10	0	10	20	30	40	50	60
H13181VAR	AB132400V1M	M	16500	7.8	670	5250	7060	8840	10650	12400	14590	17190	19800
H13241VAR	AB132400V1M	H	22500	7.8	900	7159	9627	12055	14523	16909	19895	23441	27000
H13301VAR	AB133600V1M	L	25500	7.8	1125	8114	10911	13662	16459	19164	22548	26566	30600
H13361VAR	AB133600V1M	H	32000	7.8	1240	10182	13692	17144	20655	24048	28296	33338	38400
H13421VAR	AB134800V1M	L	41000	7.8	1480	13045	17543	21966	26464	30812	36254	42715	49200
H13481VAR	AB134800V1M	H	44000	7.8	1650	14000	18827	23573	28400	33067	38907	45840	52800
H13601VAR	AB136000V1M	H	55000	7.8	1850	17500	23533	29467	35500	41333	48633	57300	66000

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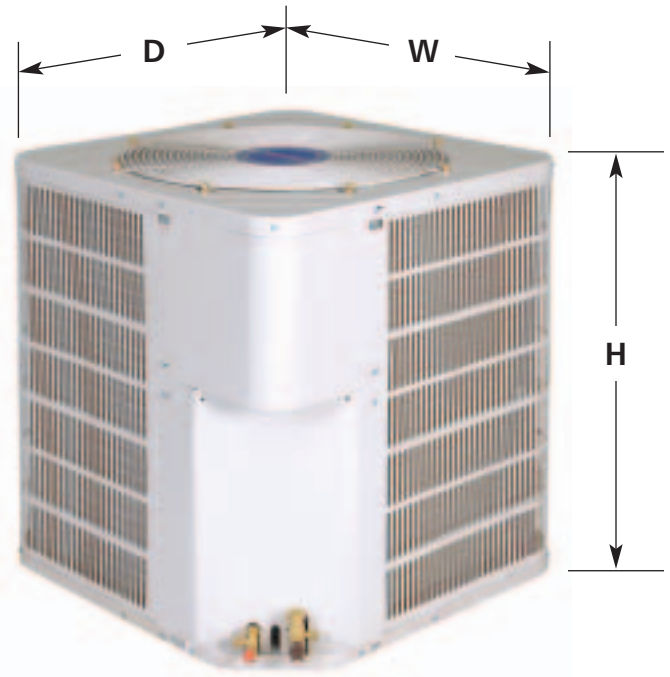
Vibration isolation pads must be installed when the unit is mounted on wall brackets.

When the unit is installed on a cement pad, a gap must be left between the pad and the foundation wall.

DIMENSIONS AND WEIGHTS

C13 Condenser

Model Number	Dimensions			Weights
	W(inch)	D(inch)	H(inch)	Lbs.
C13181VAR	23 3/8	23 3/8	32 3/16	156
C13241VAR	30 5/8	30 5/8	28 1/4	194
C13301VAR	30 5/8	30 5/8	32 3/16	198
C13361VAR	30 5/8	30 5/8	32 3/16	203
C13421VAR	30 5/8	30 5/8	32 3/16	231
C13481VAR	30 5/8	30 5/8	36 1/8	244
C13601VAR	30 5/8	30 5/8	40	271



H13 Heat Pump

Model Number	Dimensions			Weights
	W(inch)	D(inch)	H(inch)	Lbs.
H13181VAR	23 3/8	23 3/8	32 3/16	167
H13241VAR	30 5/8	30 5/8	28 1/4	203
H13301VAR	30 5/8	30 5/8	32 3/16	207
H13361VAR	30 5/8	30 5/8	32 3/16	220
H13421VAR	30 5/8	30 5/8	32 3/16	258
H13481VAR	30 5/8	30 5/8	36 1/8	271
H13601VAR	30 5/8	30 5/8	44	315

Air Handler

Model Number	Dimensions			Weights
	W(inch)	D(inch)	H(inch)	Lbs.
AB132400V1M	19 1/2	22	46 3/4	141
AB133600V1M	21 1/2	24	49 1/2	181
AB134800V1M	21 1/2	24	56	196
AB136000V1M	21 1/2	24	56	205

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The **Single Source SOLUTION**
for HVAC Products



Oneida Royal brand is only available in the USA.

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All product specifications reflect available information at the time of printing. ECR reserves the right to revise or modify products without notice.

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